

PATENT APPLICATION
SERIAL NO.: 09/811,134
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EXAMINER: Thomas J. Mullen, Jr.

IN THE CLAIMS:

1. [PREVIOUSLY AMENDED] A burglar alarm and door chime comprising:

circuit logic means mounted to a back plate fastened to the inside of a door, said circuit logic means receiving control inputs from chime/delay alarm modes electric switching means and On/Off power electric switching means to select a delay alarm mode or a chime mode of said burglar alarm and door chime, instant lock-alarm mode electric switching means, and non-contacting sensing means, said circuit logic means further cooperating with an audible alarm and chime means and an independent electric power supply means;

a front cover containing manual arming spring-biased instant lock-alarm slide means cooperating with said instant lock-alarm mode electric switching means of said burglar alarm and door chime when said front cover is fastened to said back plate;

a jamb plate fastened to an opposing doorjamb cooperating with said manual arming spring-biased instant lock-alarm slide means during the opening of said door to actuate the instant lock-alarm mode of said burglar alarm and door chime; and

said non-contacting sensing means comprising a transmitting means attached to said jamb plate and a receiving means attached to said back plate, said receiving means responsive to said transmitting means to automatically actuate said selected delay alarm mode or said selected chime mode responsive to the opening and closing of said door.

2. [PREVIOUSLY AMENDED] The burglar alarm and door chime of claim 1 wherein said spring-biased instant lock-alarm slide means attached to said front cover cooperates with said instant lock-alarm switch means to actuate an instant audible alarm having electric circuit latching means and simultaneously slidingly engages as a mechanical dead bolt lock in cooperation with said jamb plate.

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3. [PREVIOUSLY AMENDED] The burglar alarm and door chime of claim 2 wherein said spring-biased lock-alarm slide means comprises a slide having armed, instant lock-alarm, and unarmed slide positions slideably attached to said front cover, said slide being spring-biased to move through slots in said front cover to manually engage said jamb plate for the armed slide position, said jamb plate containing a cooperating aperture to automatically capture said slide during the opening of said door to engage the slide in the instant lock-alarm slide position, said slide having stop means engageable with said front cover to retain the slide in the unarmed slide position.

4. [CURRENTLY AMENDED] The burglar alarm and door chime of claim 3 wherein said circuit logic means includes variable time delay means for said delay alarm ~~operational~~ mode and light indicating means responsive to said unarmed, armed, and instant lock-alarm slide positions of said spring-biased lock-alarm slide means in said delay alarm ~~operational~~ mode.

5. [ORIGINAL] The burglar alarm and door chime of claim 1 further including a smoke detection sensing unit fastened to said burglar alarm and door chime.

6. [CURRENTLY AMENDED] The burglar alarm and door chime of claim 5 wherein said smoke detection sensing unit comprises a visual functional indicating means, a manual testing means, and an independent power supply means.

7. [PREVIOUSLY AMENDED] A burglar alarm and door chime comprising:

a back plate fastened to a front cover forming a hollow enclosure therewith, said back plate fastened to a door on the protected enclosure side of said door, said back plate having a power supply means and a printed circuit board comprising a circuit logic means fastened thereto, said circuit logic means including chime/delay alarm modes electric switching means to select a delay alarm mode or a chime mode of said burglar alarm and door chime, On/Off

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power electric switching means to enable said selected mode, instant lock-alarm mode electric switching means, and audible alarm and chime means interconnected with said printed circuit board;

said front cover containing manual arming spring-biased instant lock-alarm slide means and a bifurcated leaf spring contact means attached to said spring-biased instant lock-alarm slide means and electrically insulated therefrom, said bifurcated leaf spring contact means engaging said instant lock-alarm mode electric switching means;

non-contact sensing means comprising a transmitting means attached to a jamb plate and a receiving means attached to said circuit logic means, said receiving means responsive to said transmitting means to automatically actuate said selected delay alarm mode or said chime mode responsive to the opening and closing of said door;

said transmitting means comprising a permanent magnet and said receiving means comprising a magnetically actuated switch;

said jamb plate fastened to the opposing door jamb having a cooperating aperture to automatically capture said manual arming spring-biased instant lock-alarm slide means of said front cover during the opening of said door to effect the instant lock-alarm mode of said burglar alarm and door chime;

said audible alarm and chime means being responsive to the opening and closing of said door to annunciate an audible alarm corresponding to said delay alarm mode or an audible chime corresponding to said chime mode according to said selected mode of said burglar alarm and door chime.

8. [PREVIOUSLY AMENDED] The burglar alarm and door chime of claim 7 wherein said spring-biased instant lock-alarm slide means attached to said front cover cooperates with said

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instant lock-alarm switch means to actuate an instant audible alarm having electric circuit latching means and simultaneously slidingly engages as a mechanical dead bolt lock in cooperation with said jamb plate.

9. [PREVIOUSLY AMENDED] The burglar alarm and door chime of claim 8 wherein said spring-biased lock-alarm slide means comprises a slide having armed, instant lock-alarm, and unarmed slide positions slideably attached to said front cover, said slide being spring-biased to move through slots in said front cover to manually engage said jamb plate for the armed slide position, said jamb plate containing a cooperating aperture to automatically capture said slide during the opening of said door to engage the slide in the instant lock-alarm slide position, said slide having stop means engageable with said front cover to retain the slide in the unarmed slide position.

10. [CURRENTLY AMENDED] The burglar alarm and door chime of claim 9 wherein said circuit logic means includes variable time delay means for said delay alarm operational mode and light indicating means responsive to said unarmed, armed, and instant lock-alarm slide positions of said spring-biased lock-alarm slide means in said delay alarm operational mode.

11. [ORIGINAL] The burglar alarm and door chime of claim 7 further including a smoke detection sensing unit fastened to said burglar alarm and door chime.

12. [PREVIOUSLY AMENDED] The burglar alarm and door chime of claim 11 wherein said smoke detection sensing unit comprises a visual functional indicating means, a manual testing means, and an independent power supply means.

13. [CURRENTLY AMENDED] A burglar alarm and door chime comprising:

a self-contained operational electrical subassembly containing circuit logic means and electric power supply means mounted to a circuit board, said circuit logic means comprising

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On/Off power electric switching means, instant lock-alarm mode electric switching means, chime/delay alarm modes electric switching means, and an audible alarm means, said circuit board detachably secured to a back plate, said back plate removably fastened to a door;

a mechanical subassembly comprising a front cover including mechanical manual arming spring-biased instant lock-alarm actuation means and spring-biased switching means attached thereto cooperating with said circuit board to actuate said instant lock-alarm mode of said burglar alarm and door chime during the opening of said door, said mechanical subassembly removably interconnected with said back plate;

manually operated mode selection switching means including said instant lock-alarm and chime/delay alarm modes electric switching means of said circuit logic means cooperating to manually select among an instant lock-alarm mode, a chime mode, and a delay alarm mode;

said On/Off power electric switch means operating in ~~series~~ conjunction with said electric power supply means to activate or deactivate said burglar alarm and door chime and cooperating with additional electric switching means to set and alter the unique combination of first and second positions of each individual switches of said ~~On and Off~~ On/Off power electric switch means required to activate and deactivate said burglar alarm and door chime;

non-contacting sensing means comprising switch actuation means electrically interconnected to said circuit board responsive to transmitting means attached to a jamb plate further attached to an opposing door jamb to automatically actuate said selected delay alarm mode or said selected chime mode responsive to the opening and closing of said door;

said audible alarm means responsive to said non-contacting sensing means when one of said modes is selected to emit an audible alarm or chime upon the opening of said door;

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a variable time delay means of said circuit logic means to delay the sounding of said audible alarm or chime;

said manual arming spring-biased instant lock-alarm actuation means comprising a slide for engaging a cooperating aperture in said jamb plate attached to said door jamb to simultaneously provide a mechanical deadbolt lock upon the opening of said door in said selected instant lock-alarm mode.

14. [PREVIOUSLY AMENDED] The burglar alarm and door chime of claim 13 wherein said circuit logic means includes light indicating means responsive to unarmed, pre-arm, armed, and lock-alarm operational states of said manual arming spring-biased instant lock-alarm actuation means in cooperation with said chime/delay alarm modes electric switching means.

15. [PREVIOUSLY AMENDED] The burglar alarm and door chime of claim 13 further including a smoke detection sensing unit independently fastened to said back plate including independent power supply means, said smoke detection sensing unit comprising a visual functional indicating means and a manual testing means attached to said front cover of said mechanical subassembly and extending therethrough, to provide for visual and manual operational testing of said smoke detection sensing unit from said front cover.

16. [CANCELLED]

17. [CANCELLED]

18. [CANCELLED]

19. [CANCELLED]

20. [CANCELLED]

21. [CURRENTLY AMENDED] The burglar alarm and door chime of claim 1 wherein said receiving means comprising a magnetically actuated switch attached to said back plate is

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responsive to said transmitting means comprising a permanent magnet attached to said jamb plate during the opening and closing of said door, said magnetically actuated switch cooperating with said chime/delay alarm modes electric switching means and said On/Off power electric switching means to effect a pre-arm condition of said delay alarm operational mode during the opening of said door, and subsequently to activate said magnetically actuated switch to effect an armed condition of said delay alarm operational mode during the closing of said door and enabling a pre-set entry delay time means of said electric circuit logic means to be responsive to the subsequent opening of said door to actuate said audible alarm means after a pre-determined delay time in said selected delay alarm operational mode of said burglar alarm and door chime, or to actuate said audible chime means during the opening of said door in said selected chime operational mode of said burglar alarm and door chime.

22. [PREVIOUSLY ADDED] The burglar alarm and door chime of claim 21 wherein said chime/delay alarm modes electric switching means comprises manual selection mode switching means whereby chime or delay alarm operational modes may be manually selected for said burglar alarm and door chime.

23. [CURRENTLY AMENDED] The burglar alarm and door chime of claim 1 wherein said On/Off power electric switching means comprising a plurality of accessible manually operated electric switching means in series conjunction with said electric power supply means to manually activate or deactivate said burglar alarm and door chime cooperates with additional electric switching means to set and alter the unique combination of first and second positions of each individual switches of said On/Off power electric switching means required to activate and deactivate said burglar alarm and door chime.

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24. [PREVIOUSLY ADDED] The burglar alarm and door chime of claim 7 wherein said permanent magnet comprising a rare earth magnet attached to said jamb plate is responsive to said magnetically actuated switch comprising a magnetically responsive reed switch, said rare earth permanent magnet and said magnetically responsive reed switch cooperating with said chime/delay alarm modes electric switching means and said On/Off power electric switching means to effect a pre-arm condition of said delay alarm operational mode during the opening of said door and subsequently to activate said magnetically responsive reed switch to effect an armed condition of said delay alarm operational mode during the closing of said door and enabling a pre-set entry delay time means of said circuit logic means to be responsive to the subsequent opening of said door to activate said audible alarm means after a predetermined delay time in said selected delay alarm operational mode of said burglar alarm and door chime, or to activate said audible chime means during the opening of said door in said selected chime operational mode of said burglar alarm and door chime.

25. [PREVIOUSLY ADDED] The burglar alarm and door chime of claim 24 wherein said chime/delay alarm modes electric switching means comprises manual selection mode switching means whereby chime or delay alarm operational modes may be manually selected for said burglar alarm and door chime.

26. [CURRENTLY AMENDED] The burglar alarm and door chime of claim 7 wherein said On/Off power electric switching means comprising a plurality of accessible manually operated electric switching means in ~~series~~ conjunction with said electric power supply means to manually activate or deactivate said burglar alarm and door chime cooperates with additional electric switching means to set and alter the setting of the unique combination of first and

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second positions of each individual switches of said On/Off power electric switching means required to activate and deactivate said burglar alarm and door chime.

27. **[NEW]** The burglar alarm and door chime of claim 1 further including a low battery sensor and visual battery status indicating means visible through the front cover.

28. **[NEW]** The burglar alarm and door chime of claim 7 further including a low battery sensor and visual battery status indicating means visible through the front cover.

29. **[NEW]** The burglar alarm and door chime of claim 13 further including a low battery sensor and visual battery status indicating means visible through the front cover.